

You will need to obtain the signature of your instructor or TA on the following items in order to receive credit for your lab assignment. This assignment is due by **Friday, October 17, 2014 (Required Elements)** and **Wednesday, October 22, 2014 (Supplemental Elements)**. Labs completed after the due date will receive grade reductions.

Print your name below, sign the honor code pledge, circle your course number, and then demonstrate your working hardware & firmware in order to obtain the necessary signatures. All items must be completed to get a signature, but partial credit is given for incomplete labs. Receiving a signature on this signoff sheet does not mean that your work is eligible for any particular grade; it merely indicates that you have completed the work at an acceptable level.

Student Name: Ali Tsmg

Honor Code Pledge: "On my honor, as a University of Colorado student, I have neither given nor received unauthorized assistance on this work. I have clearly acknowledged work that is not my own."

Student Signature: [Signature]

Signoff Checklist

Required Elements

- ☒ Schematic of acceptable quality (all components shown)
- ☒ Pins and signals labeled, decoupling capacitors, and two 28-pin wire wrap sockets present on board
- ☒ Very good knowledge of a terminal emulator
- ☒ Demonstrates all 32KB of XRAM in memory map are functional, including monitor block fill command
- ☒ Using PAULMON2, demonstrates highest baud rate as: 57600
- ☒ Knows how to use SDCC [Code::Blocks IDE or make optional]
- ☒ Knows how to analyze output files (.RST, .MEM, .MAP) for correct addresses
- ☒ C serial program and virtual debug port functional and code commented
- ☒ Hex display of buffer contents

TA signature and date

[Signature] 10/16/14

Supplemental Elements (Qualifies students for higher grade)

- ☒ PWM control works correctly
- ☒ Correctly enters Idle mode and exits via external interrupt 1
- ☒ Correctly enters Power Down mode
- ☒ All other PCA software menu items function correctly
- ☒ Good understanding of PCA modes
- ☒ Good user interface; program is easy to use

TA signature and date

[Signature] 10/22/2014

Instructor/TA Comments: ☐ ☐ ☐

FOR INSTRUCTOR USE ONLY

Required Elements

	Not Applicable	Below Expectation	Meets Requirements	Exceeds Requirements	Outstanding
Schematics, SPLD code	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hardware physical implementation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Required Elements functionality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign-off done without excessive retries	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Student understanding and skills	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall Demo Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FOR INSTRUCTOR USE ONLY

Supplemental Elements

	Not Applicable	Below Expectation	Meets Requirements	Exceeds Requirements	Outstanding
Supplemental Elements functionality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sign-off done without excessive retries	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Student understanding and skills	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall Demo Quality	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments:

- ☒ Optional Challenge: PAULMON2 RUN command
- ☐ Optional Challenge: C and Assembly interfacing
- ☒ Optional Challenge: Serial ISR
- ☒ Optional Challenge: Floating point and X2 mode

Slight issue - PM freezes at MOV TMOD unless skipped, but works

* Verify PLD Logic
- Schematics - WR not connected